

FY2004 Awards for the Defense Experimental Program to Stimulate Competitive Research (DEPSCoR)					
PRINCIPAL INVESTIGATOR	INSTITUTION	DEPARTMENT	STATE	PROPOSAL TITLE	SPONSOR
Juan C. Balda	University of Arkansas	Electrical Engineering	AR	Power Packaging of Spray-Cooled SiC Devices for High Temperature and High Voltage Operation	ONR
Daniel A. Buttry	University of Wyoming	Chemistry	WY	Imaging Tools and Thin Film Coatings for Corrosion Prevention in Aluminum Alloys	AFOSR
Mark R. Garnich	University of Wyoming	Mechanical Engineering	WY	Precision Composite Space Structures	AFOSR
Joseph Havlicek	University of Oklahoma	School of Electrical and Computer Engineering	OK	Integrated Target Detection, Tracking, Classification, and Learning for Dual-Band Infrared Imagery	ARO
W. Steven Holbrook	University of Wyoming	Geology and Geophysics	WY	Seismic Oceanography: Imaging Ocean Structure and Dynamics using Marine Seismic Reflection Profiling	ONR
Kwang J. Kim	University of Nevada	Mechanical Engineering	NV	Artificial Muscle-Driven Actively Shaped and Self-Oscillatory Propulsor Blades	ONR
Dimitri J. Mavriplis	University of Wyoming	Mechanical Engineering	WY	Efficient High-Order Accurate Methods using Unstructured Grids for Hydrodynamics and Acoustics	ONR
Timothy Minton	Montana State University	Chemistry and Biochemistry	MT	Space Vehicle Material and Plume Interactions with the Low-Earth Orbital Environment	AFOSR
James G. Morris	University of Kentucky	Chemical and Materials Engineering	KY	Prediction of Texture and Formability of Continuous Cast AA 5000 and 2000 Series Aluminum Alloy Sheets and Their Quality Improvement	AFOSR
Linda J. Olafsen	University of Kansas	Physics & Astronomy	KS	High Efficiency, Room Temperature Mid-Infrared Semiconductor Laser Development for IR Countermeasures	AFOSR
Kurt E. Oughstun	University of Vermont	College of Engineering & Mathematics	VT	A Research Program on the Asymptotic Description of Electromagnetic Pulse Propagation in Spatially Inhomogeneous, Temporally Dispersive, Attenuative Media.	AFOSR
Brajendra N. Panda	University of Arkansas	Computer Science and Computer Engineering	AR	Trust-based Hierarchical Role Enhanced Policy for Adaptive Availability of Confidential Information	AFOSR
Mary Jane Perry	University of Maine	School of Marine Sciences and Darling Marine Center	ME	Growth and Phenomenology of Phytoplankton Thin Layers in the Gulf of Maine	ONR
Michael B. Pursley	Clemson University	Electrical and Computer Engineering	SC	Adaptation of Modulation in Mobile Tactical Communication Networks	ONR
Zhisheng Shi	University of Oklahoma Norman Campus	School of Electrical & Computer Engineering	OK	Novel Tunable Lead Salt Mid-Infrared Diode Lasers for Chemical Sensing	ARO
Krzysztof Szalewicz	University of Delaware	Physics and Astronomy	DE	First-Principle Predictions of Crystal Structure of Energetic Materials	ARO
Hareesh V. Tippur	Auburn University	Mechanical Engineering	AL	High-Strain Rate Fracture of Heterogeneous Materials with Micro-and Nano-Fillers: Effect of Particle Size, Shape and Filler-Matrix Adhesion	ARO
Robert J Vidmar	University of Nevada, Reno	Physics	NV	Optical Measurements of Air Plasma	AFOSR
John Pierce Wise	University of Southern Maine	Center for Integrated and Applied Environmental Toxicology	ME	Genotoxicity of Depleted Uranium in Human Bronchial Cells	ARO
John Q. Xiao	University of Delaware	Physics and Astronomy	DE	Magnetic Composites with Designed and Tunable Permittivity and Permeability for Microwave Application	ARO